



1. INTRODUCTION

The Dufferin Wind Power Project (the Project), is a wind facility being developed by Dufferin Wind Power Inc. (DWP), an entity owned by Longyuan Canada Renewables Ltd. (Longyuan Canada) and Farm Owned Power (Melancthon) Ltd. (FOPM). The proposed wind farm, located in the County of Dufferin, will consist of 18 General Electric (GE) 2.75 MW and 31 GE 1.6 MW turbines for a total of 49 wind turbines with a nameplate capacity of 99.1 MW and an expected energy generation of 91.4 MW. The wind turbines will be situated entirely on privately owned land that is currently under agricultural production of row crops, pastureland or land that has been left fallow.

A 100 MW contract from the Ontario Power Authority (OPA) for the sale of electricity from wind power through the Province's Feed-in-Tariff (FIT) program (enabled by the *Green Energy and Green Economy Act*) has been received for the Project. The Project will require approval under *Ontario Regulation 359/09, Renewable Energy Approval (REA or Ontario Regulation 359/09)* under Section V.0.1 of the *Ontario Environmental Protection Act*. Based on the REA Regulations, this project is a 'Class 4' wind facility.

Ontario Regulation 359/09 requires all renewable energy projects conduct a records review and site investigation for all water bodies that fall within the project location or the prescribed setback area (REA, Section 26). This Water Assessment Report was completed in partial fulfilment of the regulatory requirements for the REA process. Additional details regarding the potential impacts and mitigation measures required to protect these features are provided in a separate Water Body Report, as required. These reports provide for the protection of water bodies within and adjacent to the project location.

This Water Assessment Report was made available for municipal and aboriginal review and comment on February 24, 2012, and for public review and comment on May 24, 2012. Consultation ended on July 23, 2012. Other reports included in the REA submission package include:

- Project Description Report
- Construction Plan Report
 - Archaeological Assessments
 - Cultural Heritage Self-Assessments
 - Cultural Heritage Assessment
 - Transportation Plan for Turbine Delivery



- Design and Operations Report
 - Noise Assessment Report
 - Environmental Effects Monitoring Plan
 - Emergency Response and Communications Plan
 - Post-Construction Monitoring Plan
- Decommissioning Plan Report
- Property Line Setback Assessment Report
- Wind Turbine Specification Report
- Water Body Report
- Natural Heritage Assessment Reports
 - Records Review
 - Site Investigation
 - Evaluation of Significance
 - Environmental Impact Study
- Consultation Report
- Supporting Documents.

2. THE PROPONENT

Dufferin Wind Power Inc. (DWP) is a partnership between Longyuan Canada Renewables Ltd. (Longyuan Canada) and Farm Owned Power Melancthon (FOPM) Ltd. Longyuan Canada is a Toronto-based, wholly-owned subsidiary of the China Longyuan Power Group Corporation (CLYPG), which is considered the second largest renewable energy company in the world. FOPM is a partnership of local landowners and farmers that was formed to develop the Dufferin Wind Power Project. In April 2010, FOPM was awarded a 100 MW Feed-In-Tariff (FIT) contract for the sale of electricity from wind power through the Ontario Power Authority's FIT program. In June 2011, Longyuan Canada partnered with FOPM and acquired a controlling interest in the Dufferin Wind Power Project to advance the project. Together, Longyuan Canada and FOPM are developing the project.